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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/010,613	12/05/2001	Paul H. Kaye	17893.006	1920
28381 7	7590 03/24/2005		· EXAMINER	
ARNOLD &	PORTER LLP		LABAZE, EDWYN	
ATTN: IP DO	CKETING DEPT.			
555 TWELFTH STREET, N.W.		ART UNIT	PAPER NUMBER	
WASHINGTO	N, DC 20004-1206		2876	
			DATE MAILED: 03/24/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application N	0.	Applicant(s)				
Office Action Cummany	10/010,613	√	KAYE ET AL.				
Office Action Summary	Examiner		Art Unit				
	EDWYN LABA		2876				
The MAILING DATE of this communication app Period for Reply	ears on the co	er sheet v	with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, he within the statutory will apply and will exp cause the applicatio	owever, may a minimum of the re SIX (6) MC n to become a	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status							
1) Responsive to communication(s) filed on 16 De	ecember 2004.						
3) Since this application is in condition for allowar							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 66-96 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 66-96 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) Acknowledgment is made of a claim for foreign phonty under 35 c.s.c. § 119(a)-(d) of (f). a) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date							
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12162004. 	5) [6) [Notice of	f Informal Patent Application (PTO-152)				

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DETAILED ACTION

- 1. Receipt is acknowledged of amendments filed on 12/16/2004.
- 2. Receipt is acknowledged of IDS filed on 12/16/2004.
- 3. Claims 66-96 are presented for examination.

Priority

4. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 66-86, and 95-96 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee (U.S. 5,350,715) in view Fujiwara et al. (U.S. 5,238,810).

Re claim 66-67, 71-73, 76-86, 95-96: Lee teaches chip identification scheme, which includes a microparticle or micro-label (as shown in fig.# 1A) in the form of a wafer, wherein the microparticle is marked with digitally-coded machine-readable information (as shown in fig. # 1B, 2B, and 3B), the machine-readable information being etched through the microparticle as a pattern of holes (col.3, lines 15-35; col.4, lines 55-62).

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Lee fails to disclose a thickness of 0.1 to 5.0 micrometers, a width of 0.5 to 50 micrometers and length of 0.5 to 50 micrometers. Lee does not further disclose the chemical compounds during the fabrication of the microparticle, wherein the microparticle comprising silicon dioxide or metal [aluminum], a powder or fluid or gas mixed with one or more sets of microparticles and a container for dispensing the microparticle.

Fujiwara et al. discloses laser magnetic immunoassay method and apparatus thereof, which includes means of making a microparticle of an average size of 0.5 micron (as shown in fig. # 18 col.37, lines 55+). Fujiwara et al. further teaches that the microparticle comprises of silicon dioxide (col.46, lines 60+) or metal [such aluminum] (col.34, lines 1+). Fujiwara et al. teaches fabrication of the compound, wherein the compound comprises a powder or fluid or gas [herein disclosed as phenol-formaldehyde resin] mixed with one or more sets of microparticles and a container 604 for dispensing the microparticle (as shown in figs. # 40-41; col.58, lines 25+).

In view of Fujiwara et al.'s teachings, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to further modify the teachings of Lee with extra small particles including the specific range(s) of 0.1 to 5.0 micrometers, a width of 0.5 to 50 micrometers and length of 0.5 to 50 micrometers in order to implement non-visible indicia/barcode that cannot be interpreted with a naked eye Further such modification would provide an increase security for marking/tagging products with an extra small/miniature items having a non-visible machine-readable code. Furthermore, since it has been held that the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Rose*, 105 USPQ 237 (CCPA 1955).

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Re Claim 68: Lee teaches a system and method, in which the microparticle is fabricated by a micro-machining method that includes deposition, masking [using photomasking or photoligraphic process] and etching steps (col.3, lines 15+).

Re Claim 69: Lee discloses a system and method, wherein the machine-readable information is in the form of a binary code (col.4, lines 5+).

Re Claim 70: Lee teaches a system and method, wherein the microparticle incorporates an orientation [herein referred as a position reference point] marker (col.4, lines 10+).

Re Claim 74: Lee discloses a system and method, whose machine-readable code is readable by an optical device (col.4, lines 1-8).

Re claim 75: Lee teaches a system and method, in which the code is representative data comprising a multiplicity of bits (col.2, lines 60+).

7. Claims 87-94 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee (U.S. 5,350,715) as modified by Fujiwara et al. (U.S. 5,238,810) above in claim 66, and further in view of LaPerre et al. (U.S. 4,329,393).

The teachings of Lee as modified by Fujiwara et al. have been discussed above.

Lee as modified by Fujiwara et al. fails to teach means of utilizing the microparticle label/tag for marking a vehicle, or jewelry, credit cards, or valuable items, a coating compound, and means of adhering the microparticle using a transparent lacquer.

LaPerre et al. discloses coating compositions for retrospective identification of articles, which includes a coating composition for securely attach [using a clear lacquer] microparticle tag/label to the surface of an article or solid object (col.1, lines 40-67; col.2, lines 20+; col.6, lines 53-65).

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In view of LaPerre et al.'s teachings, it would have been obvious to an artisan of ordinary skill in the art at the time the invention was made to further modify the teachings of Lee in view of Fujiwara et al. so as to employ a coating composition for securely attach microparticle label/tag for marking a vehicle, or jewelry, credit cards, or valuable items. Furthermore, such modification would greatly improve the security of the tagged items without any instant notification of the microparticle tag due the size (0.1 - 5.0 microns) of the tag, which renders the tag invisible to the naked eye. Moreover, such modification would have been an obvious extension as taught by Lee as modified by Fujiwara et al.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Bawendi et al. (6,617,583) discloses inventory control.

Ravkin et al. (US 2003/0059764) teaches multiplexed cell analysis system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to EDWYN LABAZE whose telephone number is (571) 272-2395. The examiner can normally be reached on \$\mathbf{J}\$:30 AM - 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Lee can be reached on (571) 272-2398. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

el Edwyn Labaze Patent Examiner Art Unit 2876 March 17, 2005

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